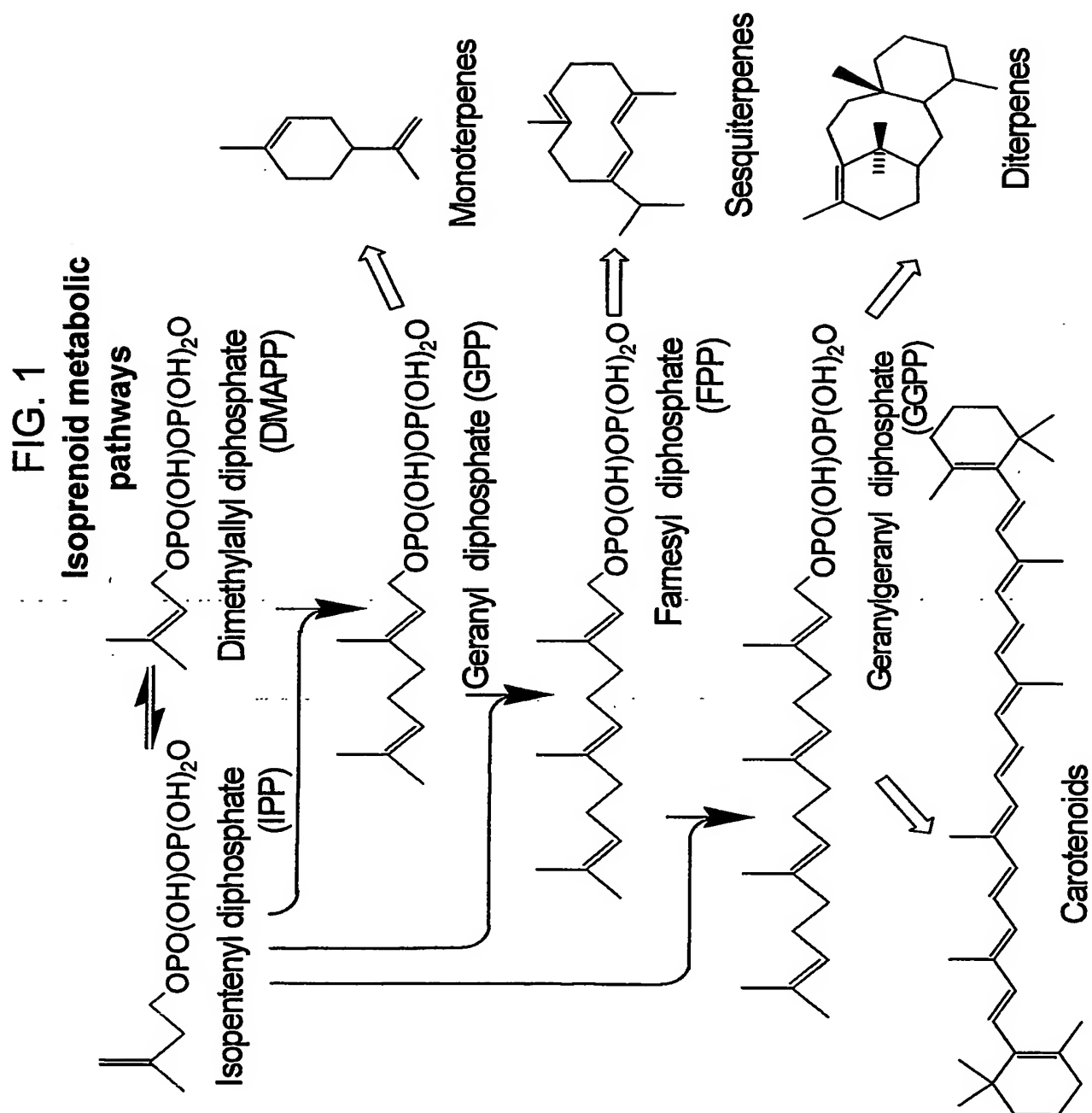


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FIG. 2
Mevalonate pathway

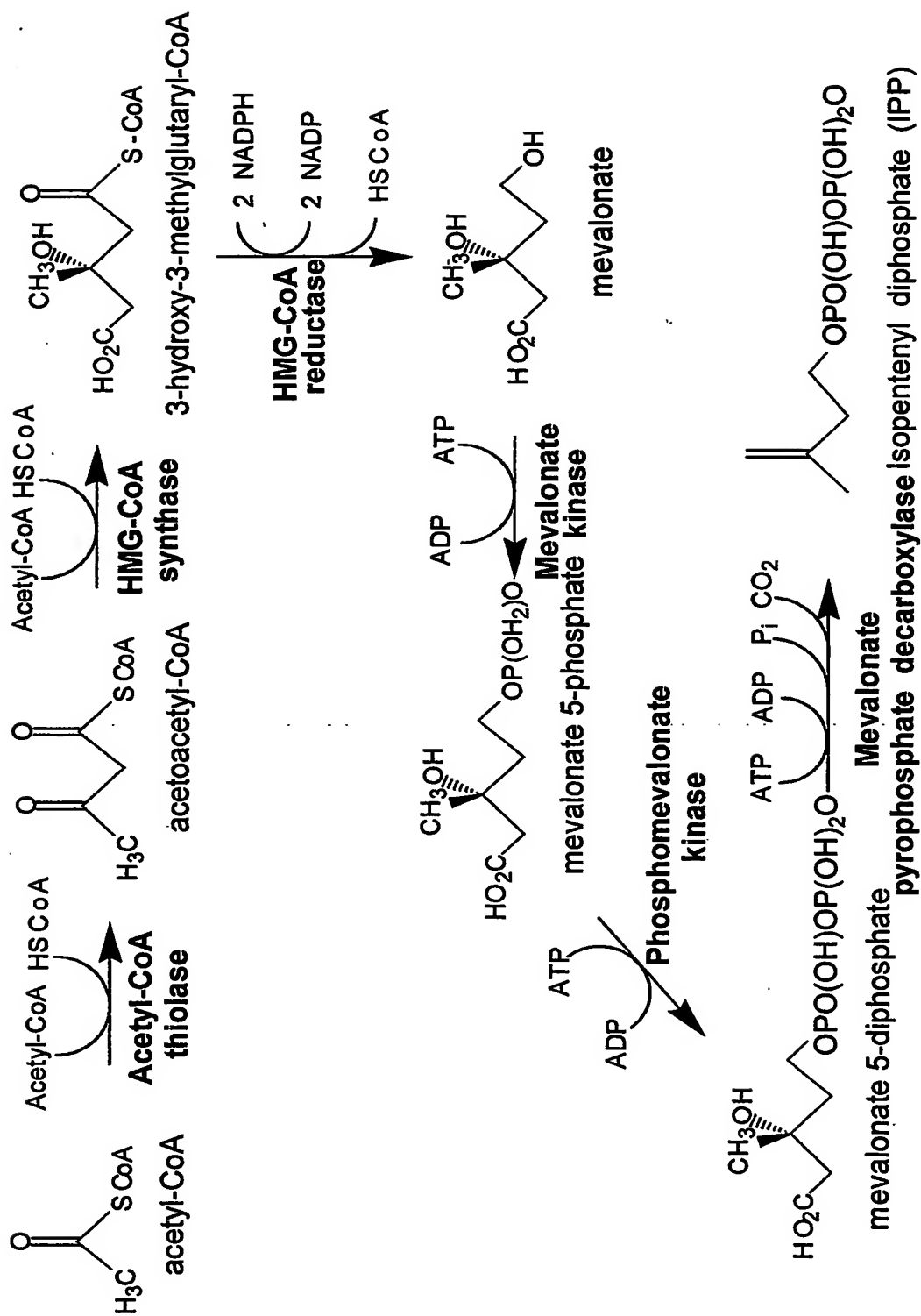
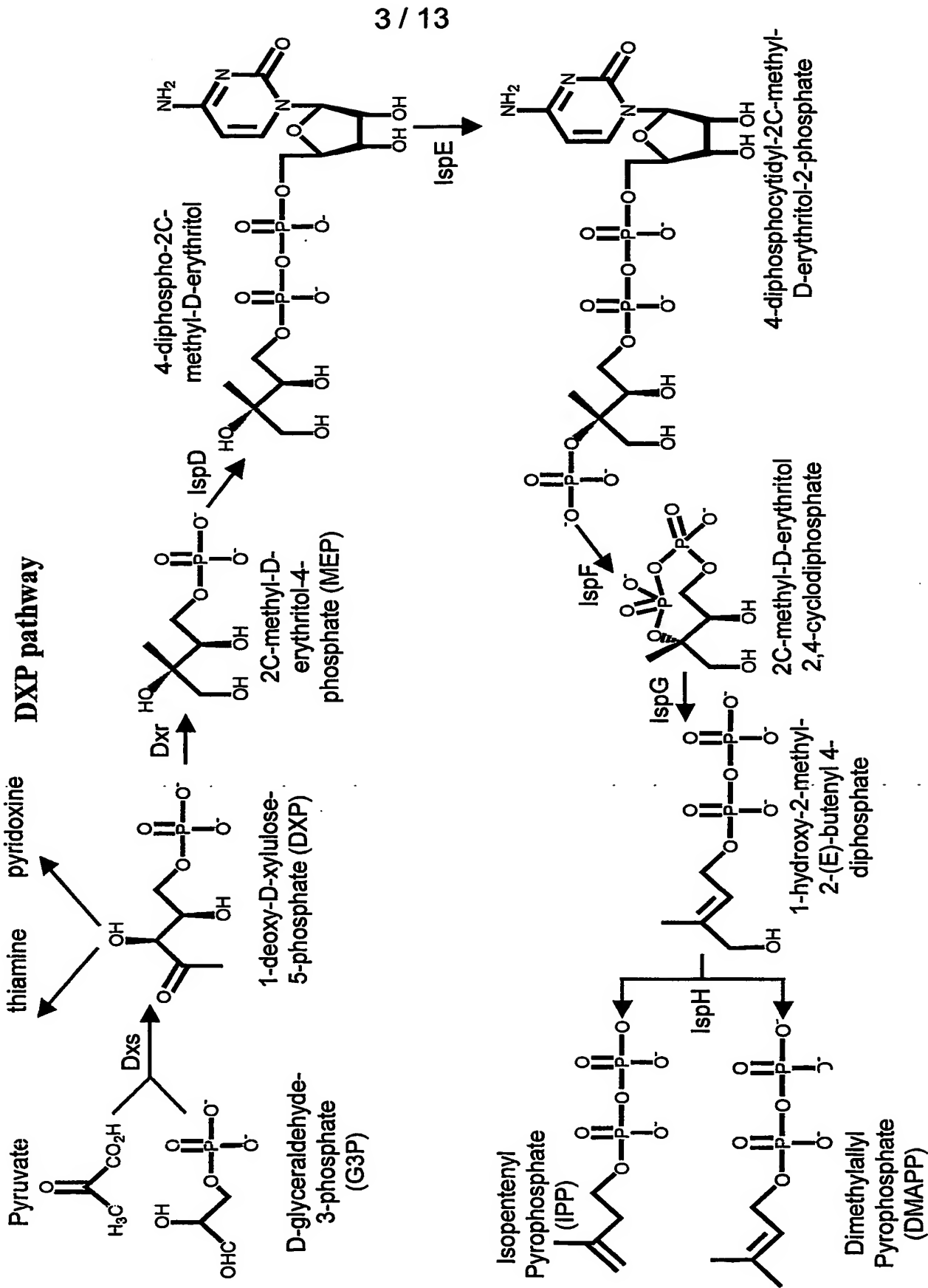


FIG. 3
DXP pathway



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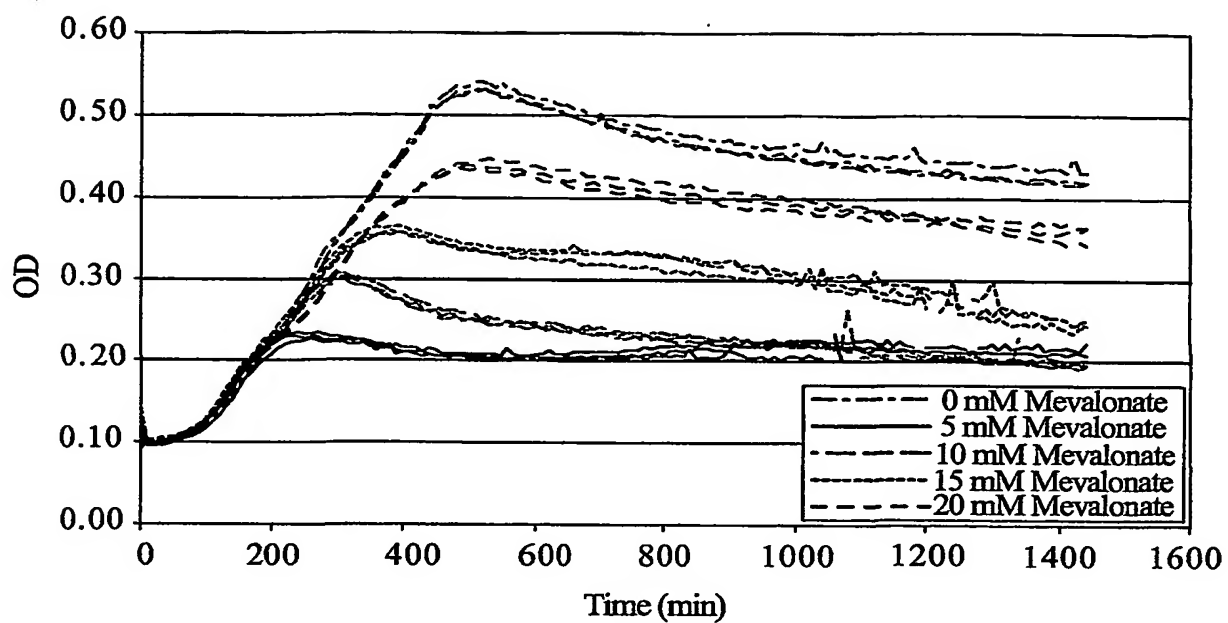


FIG. 4

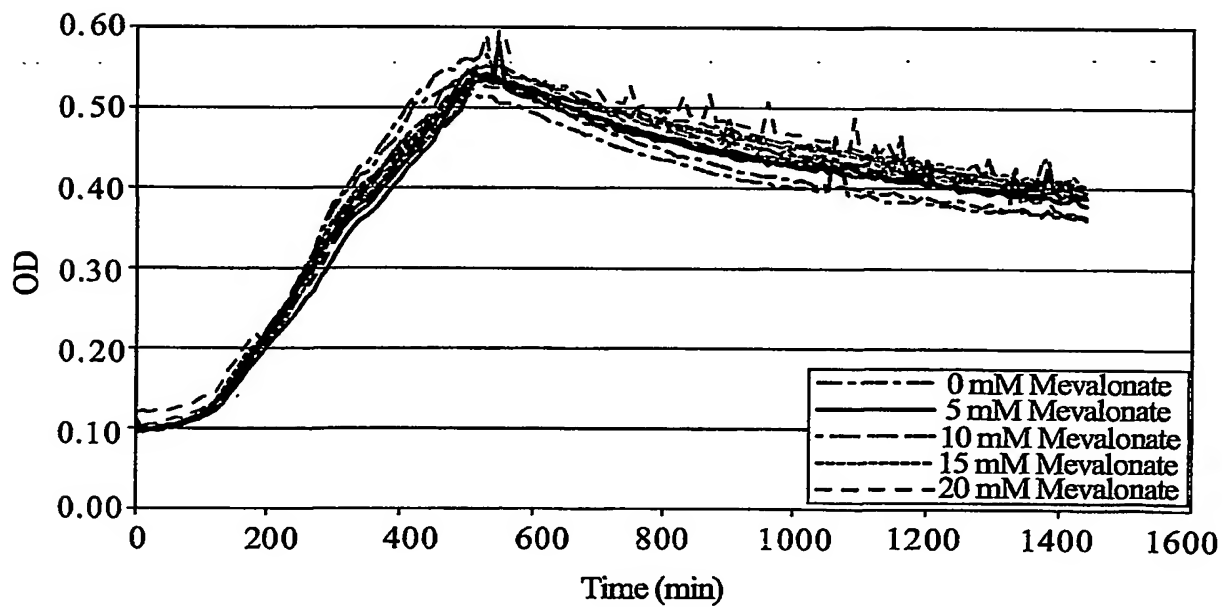
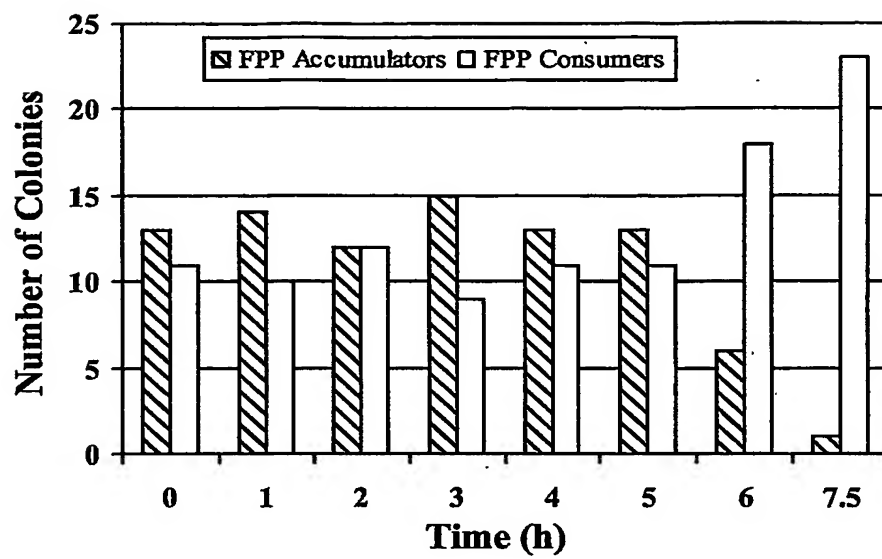


FIG. 5

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FIG. 6



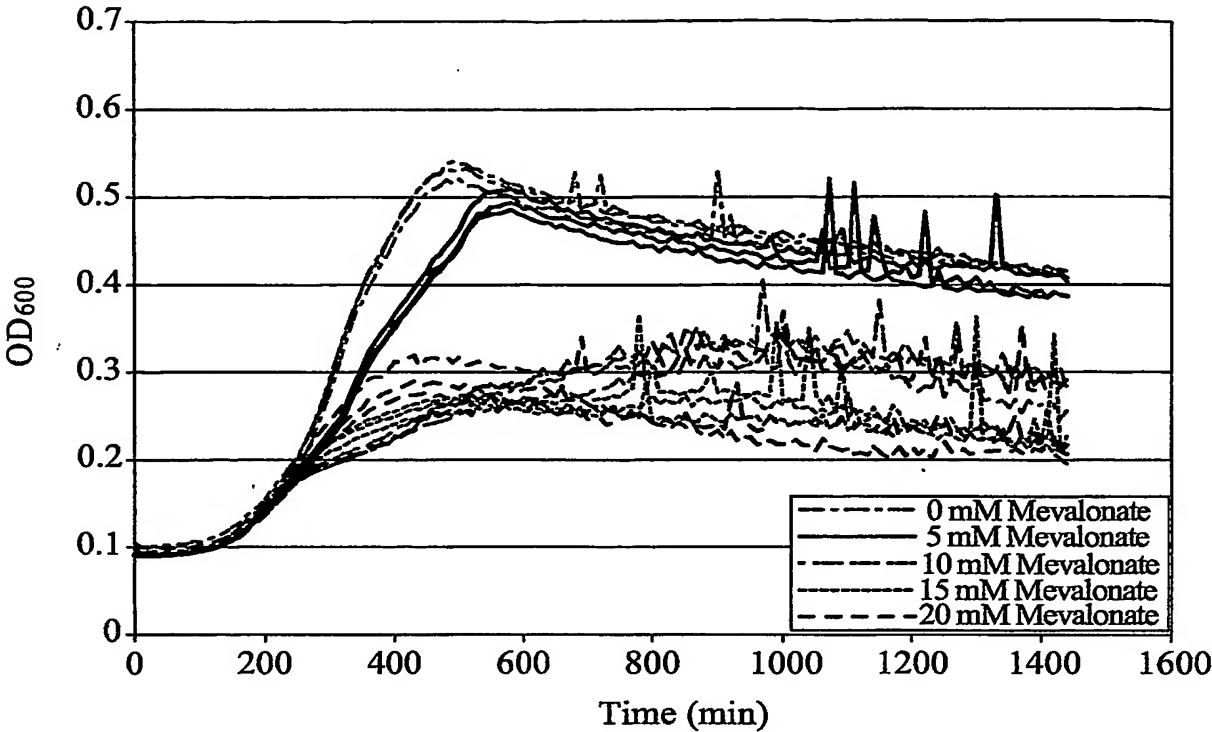


FIG. 7

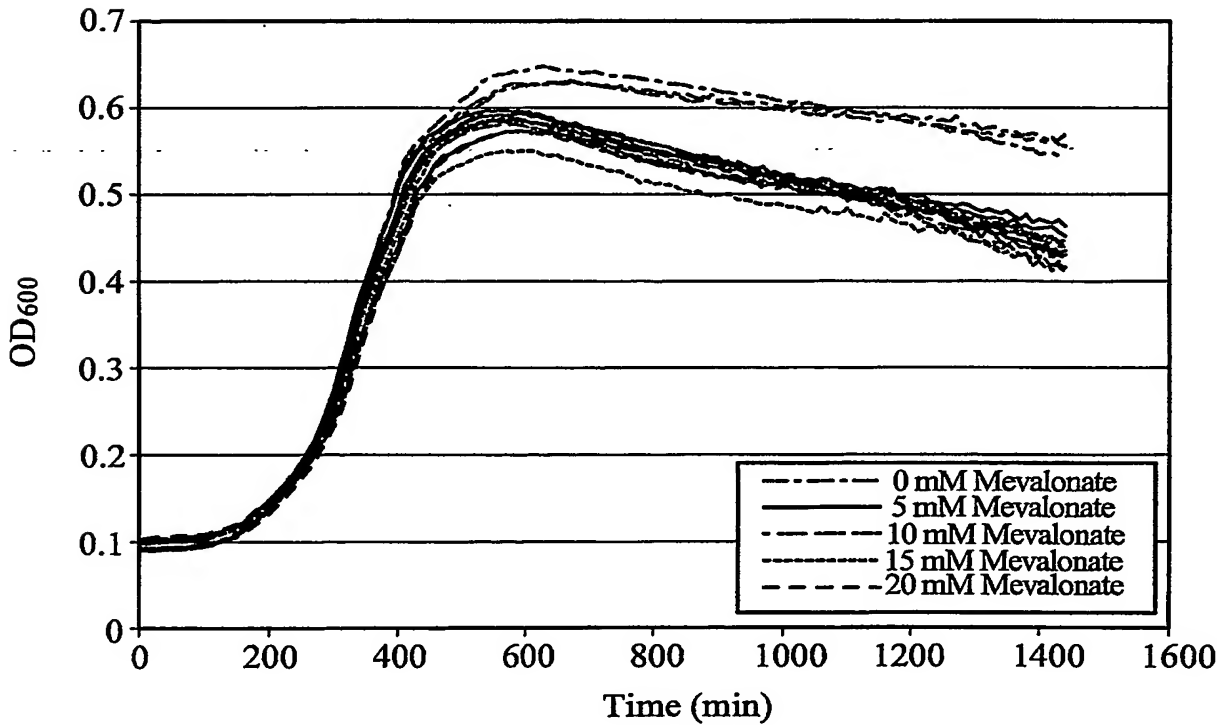


FIG. 8

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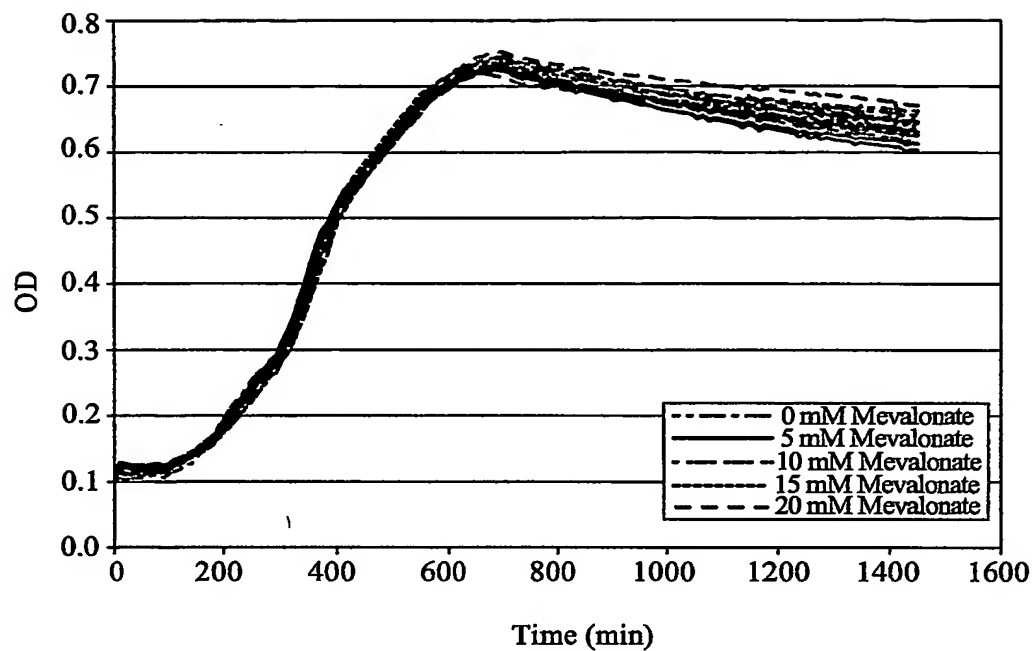
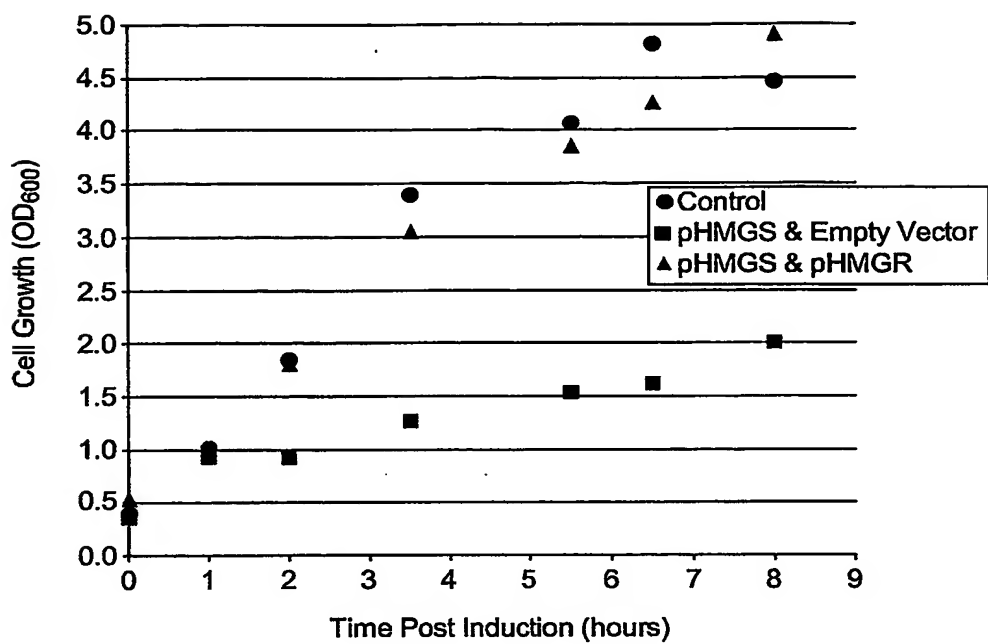


FIG. 9

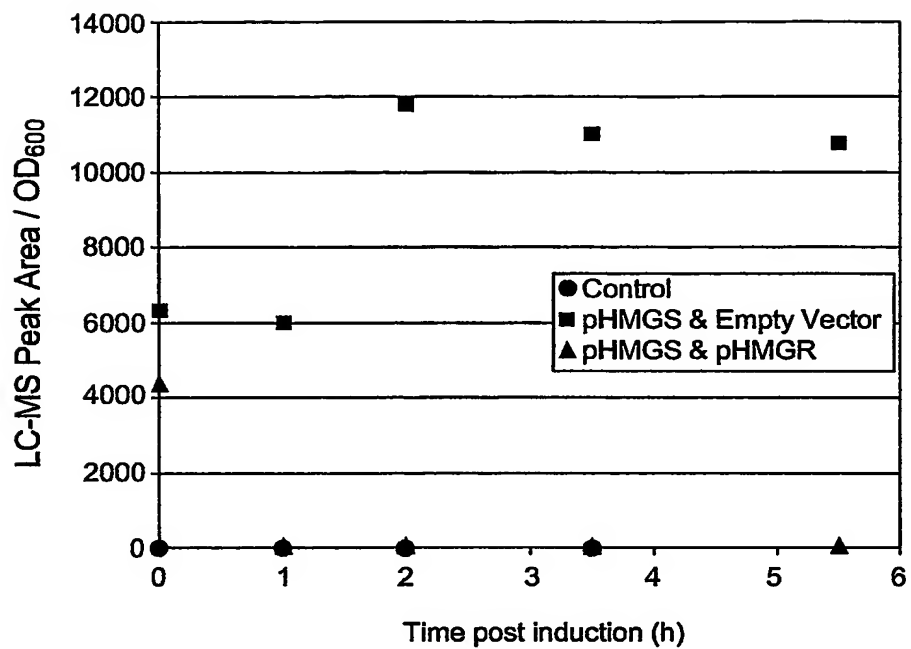
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FIG. 10



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FIG. 11



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T-1	
GATTAAGGCATGCACCATGGCCCTGACCGAAGAGAAACCG	ATCCGCCCGATCGCTAACT
CTAATTCCGTACGTGGTACCGGGACTGGCTTCTCTTTGGCTAGGCGGGCTAGCGATTGA	
B-1	B-2
T-2	T-3
TCCCGCCGTCTATCTGGGGTGACCAGTTCCTGATCTACGAAAAGCAGGTTGAGCAGGGT	
AGGGCGGCAGATAGACCCCACTGGTCAAGGACTAGATGCTTTTCGTCCAACCTCGTCCCA	
B-3	
T-4	
GTTGAACAGATCGTAAACGACCTGAAGAAAGAAGTTCGTCAGCTGCTGAAAGAAGCTCT	
CAACTTGTCTAGCATTTGCTGGACTTCTTTCTTCAAGCAGTCGACGACTTTCTTCGAGA	
B-4	B-5
T-5	T-6
GGACATCCCGATGAAACACGCTAACCTGCTGAAACTGATCGACGAGATCCAGCGTCTGG	
CCTGTAGGGCTACTTTGTGCGATTGGACGACTTTGACTAGCTGCTCTAGGTGCGAGACC	
B-6	
T-7	
GTATCCCGTACCACTTCGAACGCGAAATCGACCACGCACTGCAGTGCATCTACGAAACC	
CATAGGGCATGGTGAAGCTTGCGCTTTAGCTGGTGCCTGACGTCACGTAGATGCTTTGG	
B-7	B-8
T-8	T-9
TACGGCGACAACCTGGAACGGCGACCGTTCTTCTCTGTGGTTTCGTCTGATGCGTAAACA	
ATGCCGCTGTTGACCTTGCCGCTGGCAAGAAGAGACACCAAAGCA	GACTACGCATTTGT
B-9	
T-10	
GGGCTACTACGTTACCTGTGACGTTTTTAACAACCTACAAGGACAAGAACGGTGCTTTCA	
CCCGATGATGCAATGGACACTGCAAAATTGTTGATGTTCTTCTTGGCCACGAAAGT	
B-10	B-11
T-11	T-12
AACAGTCTCTGGCTAACGACGTTGAAGGCCTGCTGGAAGTGTACGAAGCGACCTCCATG	
TTGTCAGAGACCGATTGCTGCAACTTCCGGACGACCTTGACATGCTTCGCTGGAGGTAC	
B-12	
T-13	
CGTGTACC	GGGTGAAATCATCCTGGAGGACGCGCTGGGTTTCACCCGTTCTCGTCTGTC
GCACATGGCCCACTTTAGTAGGACCTCTGCGCGACCCAAAGTGGGCAAGAGCAGACAG	
B-13	B-14
T-14	T-15
CATTATGACTAAAGACGCTTTCTCTACTAACCCGGCTCTGTTACCGAAATCCAGCGTG	
GTAATACTGATTTCTGCGAAAGAGATGATTGGGCCGAGACAAGTGGCTTTAGGTGCGAC	

FIG. 12A

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T-16
 CTCTGAAACAGCCGCTGTGGAAACGTCTGCCCGTATCGAAGCAGCACAGTACATTCCG
 GAGACTTTGTCGGCGACACCTTTGCAGACGSCGCATAGCTTCGTCTGTCATGTAAGGC
 B-16 B-17
 T-17 T-18
 TTTTACCAGCAGCAGGACTCTCACAACAAGACCCCTGCTGAAACTGGCTAAGCTGGAATT
 AAAATGGTCGTCTGTCTGAGAGTGTTGTTCTGGGACGACTTTGACCGATTGACCTTAA
 B-18
 T-19
 CAACCTGCTGCTAGTCTCTGCACAAAGAAGAACTGTCTCACGTTTGTAAGTGCTGGAAGG
 GTTGGACGACGTCAGAGACGTGTTTCTTCTTGACAGAGTGCAAACATTCACCACCTTCC
 B-19 B-20
 T-20 T-21
 CATTGACATCAAGAAAAACGCGCCGTGCCTGCGTGACCGTATCGTTGAATGTTACTTC
 GTAAACTGTA GTTCTTTTTCGCGGCACGGACGCACTGGCATAGCAACTTACAATGAAG
 B-21
 T-22
 TGGGGTCTGGGTTCTGGTTATGAACCACAGTACTCCCGTGCACGTGTGTTCTTCACTAA
 ACCCCAGACCCAAGACCAATACTTGGTGTCATGAGGGCACGTGCACACAAGAAGTGATT
 B-22 B-23
 T-23 T-24
 AGCTGTAGCTGTTATCACCTGATCGATGACACTTACGATGCTTACGGCACCTACGAAG
 TCGACATCGACAATA GTGGGACTAGCTACTGTGAATGCTACGAATGCCGTGGATGCTTC
 B-24
 T-25
 AACTGAAGATCTTTACTGAAGCTGTAGAACGCTGGTCTATCACTTGCCCTGGACACTCTG
 TTGACTTCTAGAAATGACTTCGACATCTTGCGACCA GATAGTGAACGGACCTGTGAGAC
 B-25 B-26
 T-26 T-27
 CCGGAGTACATGAAACCGATCTACAACTGTTTCATGGATACCTACACCGAAATGGAGGA
 GGCCTCATGTACTTTGGCTAGATGTTTGACAAGTACCTATGGATGTGGCTTTACCTCT
 B-27
 T-28
 ATTCCTGGCAAAAGAAGGCCGTACCGACCTGTTCAACTGCGGTAAAGAGTTTGTTAAAG
 TAAGGACCGTTTTCTTCCGGCATGGCTGGACAAGTTGACGCCATTTCTCAAACAATTTT
 B-28 B-29
 T-29
 AATTCGTACGTAACCTGATGGTTGAAGCTAAATGGGCTAACGAAGGCCATATCCCGACT
 TTAAGCATGCATTGGACTACCAACTTCGATTTACCCGATTGCTTCCGGTATAGGGCTGA
 B-30
 T-30 T-31
 ACCGAAGAACATGACCCGGTTGTTATCATCACCGGCGGTGCAAACCTGCTGACCACCAC
 TGGCTTCTTGTA CTGGGCCAACAATAGTAGTGGCCGCCACGTTTGGACGACTGGTGGT
 B-31

FIG. 12B

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T-32

TTGCTATCTGGGTATGTCCGACATCTTTACCAAGGAATCTGTTGAATGGGCTGTTTCTG	
AACGATAGACCCATACAGGCTGTAGAAATGGTTCCTTAGACAACCTACCCGACAAAGAC	
B-32	B-33
T-33	T-34
CACCGCCGCTGTTCCGTTACTCCGGTATTCTGGGTCGTCTGCTGAACGACCTGATGACC	
GTGGCGGCGACAAGGCAATGAGGCCATAAGACCCAGCAGCAGA	CTTGCTGGACTACTGG

B-34

T-35

CACAAAGCAGAGCAGGAACGTAAACACTCTTCCTCCTCTCTGGAATCTACATGAAGGA	
GTGTTTCGTCTCGTCCTTGCAATTTGTGAGAAGGAGGAGAGACCTTAGGATGTACTTCCT	
B-35	B-36
T-36	T-37
ATATAACGTTAACGAGGAGTACGCACAGACTCTGATCTATAAAGAAGTTGAAGACGTAT	
TATATTGCAATTGCTCCTCATGCGTGTCTGAGACTAGATATTTCTTCAACTTCTGCATA	

B-37

T-38

GGAAAGACATCAACCGTGAATACCTGACTACTAAAAACATCCCGCGCCCGCTGCTGATG	
CCTTTCTGTAGTTGGCACTTATGGACTGATGATTTTTGTAGGGCGCGGGCGACGACTAC	
B-38	B-39
T-39	T-40
GCAGTAATCTACCTGTGCCAGTTCCTGGAAGTACAGTACGCTGGTAAAGATAACTTCAC	
CGTCATTAGATGGACACGGTCAAGGACCTTCATGTCATGCGACCATTCTATTGAAGTG	

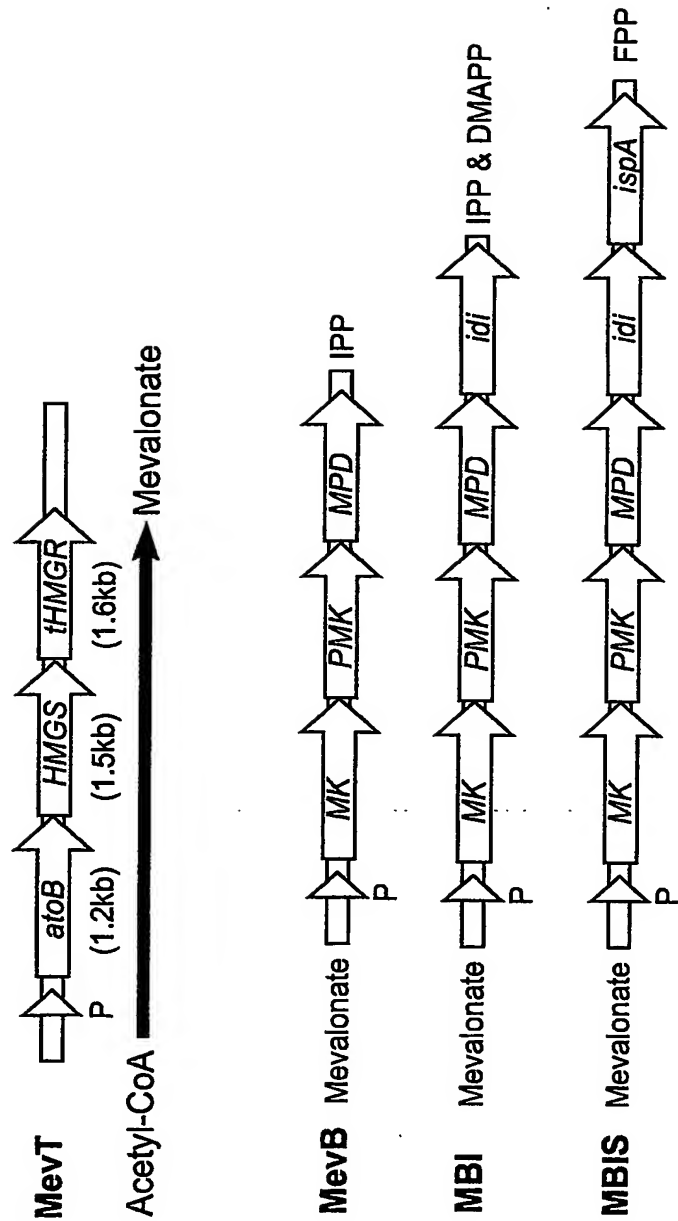
B-40

T-41

TCGCATGGGCGACGAATACAAACACCTGATCAAATCCCTGCTGGTTTACCGATGTCCA	
AGCGTACCCGCTGCTTATGTTTGTGGA	CTAGTTTAGGGACGACCAAATGGGCTACAGGT
B-41	B-stop
T-stop	
TCTGATCCCGGGATTAGAT	SEQ ID NO: 23
AGACTAGGGCCCTAATCTA	SEQ ID NO: 24

FIG. 12C

FIG. 13



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